

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known		
				Application Number	10/602,998	
				Filing Date	June 23, 2003	
				First Named Inventor	Thomas M. Brennan	
				Art Unit	1645 1637	
				Examiner Name	Unknown CM Bobic	
Sheet	1	of	27	Attorney Docket Number		28690-705.302

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
CMBS		4,683,202	07/28/87	Mullis	
		4,834,946	05/30/89	Levin	
		5,143,854	09/01/92	Pirrung, et al.	
		5,202,231	04/13/93	Dramanac, et al.	
		5,412,087	05/02/95	McGall, et al.	
		5,445,934	08/29/95	Fodor, et al.	
		5,445,943	08/29/95	Hoenes	
		5,474,796	12/12/95	Brennan	
		5,489,678	02/06/96	Fodor, et al.	
		5,492,806	02/20/96	Dramanac, et al.	
		5,525,464	06/11/96	Dramanac	
		5,545,568	08/13/96	Ellman	
		5,556,749	09/17/96	Mitsushashi, et al.	
		5,571,639	11/05/96	Hubbell, et al.	
		5,614,608	03/25/97	Krchnak, et al.	
		5,650,277	07/22/97	Navot, et al.	
		5,667,972	06/16/97	Dramanac, et al.	
		5,679,773	10/21/97	Holmes	
		5,691,141	11/25/97	Köster	

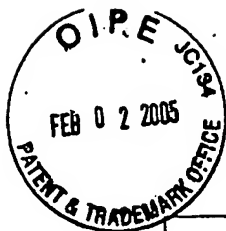
FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
A003		EP 717113A2	06/19/96	Affymetrix, Inc.		
		WO 92/15712	09/17/92	Molecular Tools, Inc.		
		WO 93/09250	05/13/93	Adelaide Children's Hospital University of South Australia		
		WO 95/17126	09/02/93	The Public Health Research Institute of the City		

Examiner Signature		Date Considered	8/25/05
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				First Named Inventor	Thomas M. Brennan
				Art Unit	1645 1637
				Examiner Name	Unknown cm Bessie
Sheet	2	of	27	Attorney Docket Number 28690-705.302	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
cmB		5,695,940	12/09/97	Dramanac, et al.	
		5,700,637	12/23/97	Southern	
		5,700,642	12/23/97	Monoforte, et al.	
		5,710,028	01/20/98	Eyal, et al.	
		5,739,386	04/14/98	Holmes	
		5,744,305	04/28/98	Fodor, et al.	
		5,800,992	09/01/98	Fodor, et al.	
		5,830,655	11/03/98	Monoforte, et al.	
		5,837,832	11/17/98	Chee, et al.	
		5,846,943	12/08/98	Hindsgaul, et al.	
		5,858,653	01/12/99	Duran, et al.	
		5,858,659	01/12/99	Sapolsky, et al.	
		5,871,928	02/16/99	Fodor, et al.	
		5,888,819	03/30/99	Goelet, et al.	
		5,889,165	03/30/99	Fodor, et al.	
		5,917,016	06/29/99	Holmes	
		5,919,626	07/06/99	Shi, et al.	
		5,922,534	07/13/99	Lichtenwalter	
		5,927,547	07/27/99	Papen, et al.	

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cmB		WO 95/11995	05/04/95	Affymax Technologies N.V.		
		WO 97/28282	08/	Stratagene		
		WO 97/43447	11/20/97	Motorola		
		WO 97/45730	12/04/97	Biodx		
		WO 98/09735	03/12/98	International Business machine Corporation		

Examiner Signature		Date Considered	8/25/05
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Sheet	3	of	27	Attorney Docket Number		28690-705.302«CaseNumber»

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CM3		5,929,208	07/27/99	Heller, <i>et al.</i>	
		5,972,619	10/26/99	Dramanac, <i>et al.</i>	
		5,985,551	11/16/99	Brennan	
		5,985,557	11/16/99	Prudent, <i>et al.</i>	
		5,985,761	11/16/99	Saprks, <i>et al.</i>	
		6,001,567	12/14/97	Brow, <i>et al.</i>	
		6,018,041	01/25/00	Dramanac, <i>et al.</i>	
		6,025,136	02/15/00	Drmanac	
		6,028,189	02/22/00	Blanchard	
		6,030,782	02/29/00	Anderson, <i>et al.</i>	
		6,040,138	03/21/00	Lockhart, <i>et al.</i>	
		6,043,031	03/28/00	Köster, <i>et al.</i>	
		6,054,270	04/25/00	Southern	
		6,074,823	06/13/00	Köster	
		6,083,763	07/04/00	Balch	
		6,090,995	07/18/00	Reich, <i>et al.</i>	
		6,103,479	08/15/00	Taylor	
		6,197,506	03/06/01	Fodor, <i>et al.</i>	
	6,210,894	04/03/01	Brennan		

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
CM3		WO 99/21957	05/06/99	The University of North Carolina at Chapel Hill		
		WO 98/22487	05/28/98	Synsorb Biotech, Inc.		
		WO 98/28438	07/02/98	Diatech Pty. Ltd.		
		WO 98/30883	07/16/98	Sheldon, Edward L.		

Examiner Signature	<i>[Signature]</i>	Date Considered	8/25/05
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			Art Unit	1645 / 637	
			Examiner Name	Unknown CM Rasic	
Sheet	4	of	27	Attorney Docket Number	28690-705.302

U.S. PATENT DOCUMENTS

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[Signature]		6,291,183	09/18/01	Pirrung, et al.	
		6,309,822	10/30/01	Fodor, et al.	
		6,309,823	10/30/01	Cronin, et al.	
		6,309,831	10/30/01	Goldberg, et al.	
		6,310,189	10/30/01	Fodor, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² - Number ³ - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
CMB		WO 98/38490	09/03/98	Biodx, Inc.		
		WO 98/38846	09/11/98	Affymetrix, Inc.		
		WO 98/41531	09/24/98	University of Washington		
		WO 98/46247	10/22/98	Wisconsin Alumni Research Foundations		
		WO 98/47003	10/22/98	United States of America		
		WO 98/50403	11/12/98	THIRD WAVE TECHNOLOGIES, INC.		
		WO 98/54362	12/03/98	The Perkin-Elmer Corporation		
		WO 98/56954	12/17/98	Affymetrix, Inc.		
		WO 99/05308	02/04/99	RAPIGENE, INC.		
		WO 99/06593	02/11/99	Sarnoff Corporation		
		WO 99/06834	02/11/99	IXSYS, Incorporated		
		WO 99/07888	02/18/99	Bulynk, Martha L.		
		WO 99/09073	02/25/99	Akazo Nobel N.V.		
		WO 98/21221	05/22/98	Synsorb Biotech, Inc		
		WO 94/11530	05/26/94	Trustees of Boston University		
	WO 93/17136	09/02/93	The Dow Chemical Company			
	WO 98/33586	08/06/98	Protopene Laboratories, Inc.			

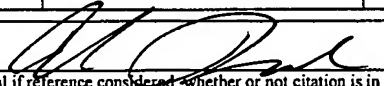
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Sheet	5	of	27	Attorney Docket Number		28690-705.302

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am3		WO 99/14228	03/25/99	Affymetrix, Inc		
		WO 99/27137	06/03/99	Orchid Biocomputer, Inc.		
		WO 99/37812	07/29/99	Orchid Biocomputer, Inc		
		WO 99/39004	08/05/99	The government of the United States of America, Secretray, Department of Health and Human Services		
		WO 99/47701	09/23/99	November AG Novus Medicatus Bertling Gesellschaft fur Molekulare Medizin		
		WO 99/54509	10/28/99	Affymetrix, Inc.		
		WO 99/58708	11/18/99	Rosetta Inpharmatics, Inc		
		WO 00/03246	01/20/00	Cellomics, Inc.		
		WO 00/17624	03/30/00	Cellomics, Inc.		
		WO 00/17643	03/30/00	Cellomics, Inc.		
		WO 00/50872	08/31/00	Cellomics, Inc.		
Examiner Signature				Date Considered	8/25/05	

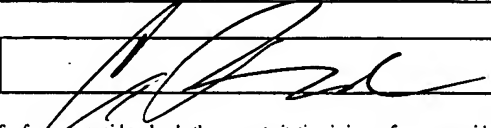
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CM3		ABRAMSON et al., Nucleic acid amplification technologies, Curr. Opin. Biotechnol., 1993, pp.41-47, vol. 4	
		ABRAVAYA et al., Detection of poinT mutations with a modified ligase chain reaction, Nucleic Acids Res., 1995, pp 675-682, vol 23	
		ADINOLFI et al., Solid Phase Synthesis of Oligosaccharides, Tetrahedron Lett., 1996, pp 5007-5010, 37 (28)	
		ALBERICIO et al., Covergent Solid-Phase Peptide Synthesis, Methods Enzymol, 1997, pp 313-316, vol 289	
		ANDRES et al., Transistion metal mediated reactions in combinatorial synthesis, Curr. Opin. Chem. Biol., 1998, pp353-362, vol 2	
		ATHERTON et al., Solid Phase Peptide Synthesis, A practical approach, IRL press, 1989,	
		AUSUBEL et. al., Current Protocols in Molecular Biology, John Wiley & Sons, 1989, vol. 1-2	
✓		BEIER et. al., Versatile Derivatisation of solid support media for covalent bonding on DNA-microchips, Nucleic Acids Res., 1999, pp 1970-1977, vol. 27 (9)	

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CM B		BLANCHARD et. al., Syntheic DNA Arrays, Biosensors and Bioelectronics, 1996, pp 687-690, vol. 11	
		BLIXT et. al., Solid-Phase Enzymatic Synthetic of a Sialy Lewis X Tetrassaccharide on a Sepharose Matrix, J. Org. Chem., 1998, pp.2705-2710, vol. 63	
		BRZOSKA et. al., Evidence of a transistion temperature for the optimum depostion of grafted monolayer coatings, Nature, 1992, pp 719-721, 360	
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✓		CANTOR and SCHIMMEL et. al., Part 1: The conformation of biological macromolecules, Biophycical Chemistry, San Francisco, W.H. Freeman, 1980	

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				Filing Date	June 23, 2003
				First Named Inventor	Thomas M. Brennan
				Art Unit	1645 1637
				Examiner Name	Unknown CM Babic
Sheet	8	of	27	Attorney Docket Number	28690-705.302

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		CZARNIK, et. al., Guest Editorial, Accounts Chem. Rev., 1996, pp112-170, vol. 29	
		DANISHEFSKY et. al., A Strategy for the Solid-Phase Synthetic of Oligosaccharides, Science, 1993, pp1307-1309, vol 260	
		DERISI, et. al., Exploring the Metabolic and Genetic Control of Gene Expression on A Genomic Scale, Science, 1997, pp680-686, vol 278	
		DE WILDT et. al., Antibody arrays for high-throughput screening of antibody-antigen interactions, Nature, 2000, pp 989, vol. 18	
		DRMANAC et. al., Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method, Genomics, 1989, pp114-28, vol 4	
		DRMANAC et. al., Accurate sequencing by hybridization for DNA diagnostics and individual genomics, Nature Biotechnology, 1998, pp 54-58, vol 16	
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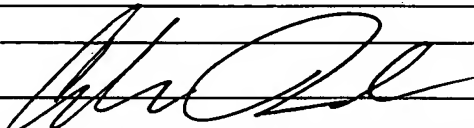
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		GERHOLD et al, DNA chips: promising toys have become powerful tools, TIBS, 1999, pp168-173, vol. 24	
		GIBSON et al, A Novel Method for Real Time Quantitative RT-PCR, Genome Res., 1996, pp995-1001, vol. 6	
		GIESEN et al., A formula for thermal stability (T _m) prediction of PNA/DNA duplexes, Nucleic Acids Research, 1998, pp. 5004-5006, vol. 26(21)	
		GOOD et al., Antisense inhibition of gene expression in bacteria by PNA targeted to mRNA, Nature Biotechnology, 1998, pp. 355-358, vol. 16	
		GORDON et al., Combinatorial Chemistry and Molecular Diversity in Drug Discovery, 1997, John Wiley & Son, New York	
		GORDON et al., Applications of Combinatorial Technologies to Drug Discovery. 2. Combinatorial Organic Synthesis, Library Screening Strategies, and Future Directions, J. Med. Chem., 1994, pp 1385-1401, vol. 37	
✓		GRANT et al., Human acetyltransferase polymorphisms, Mut. Res., 1997, pp 61-70, vol. 376	

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		GREENBERG, Photochemical Release of Protected Oligonucleotides Containing 3'-Glycolate Termini, Tetrahedron, 1995, pp 29-38, vol. 51	
		GREENBERG, Photochemical Cleavage of Oligonucleotides From Solid Phase Supports, Tetrahedron Lett., 1993, pp 251-254, vol. 34	
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✓		HECKEL et al., Oligosaccharide Synthesis on Controlled-Pore Glass as Solid Phase Material, Synlett, 1998, pp. 171-173	

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		HERMKENS et al., Solid-Phase Organic Reactions: A review of the Recent Literature, Tetrahedron, 1996, pp. 4527-4554, vol. 52	
		HIGUCHI et al., Simultaneous Amplification and Detection of Specific DNA Sequences, Bio/Technology, 1992, pp. 413-417, vol. 10	
		HIGUCHI et al., Kinetic PCR Analysis: Real-time Monitoring of DNA Amplification Reaction, Bio/Technology, 1993, pp. 1026-1030, v	
		HOLMES et al., Reagents for Combinatorial Organic Synthesis: Development of a New o-Nitrobenzyl Photoable Linker for Solid Phase Synthesis, J. of Org. Chem., 1995, pp.2318-2319, vol. 60	
		HOLMES et al., Model Studies for New o-Nitrobenzyl Photolabile Linkers: Substituent Effects on the Rates of Photochemical Cleavage, J. of Org. Chem., 1997, pp 2370-2380, vol. 62	
✓		HUGHES et al., Functional Discovery via a Compendium of Expression Profiles, Cell, 2000, pp. 109-126, vol. 102	

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		ISHIGURO et al., Homogeneous Quantitative Assay of Hepatitis C Virus RNA by Polymerase Chain Reaction in the Presence of a Fluorescent Intercalater, Anal. Biochem., 1995, pp. 207-213, vol. 229	
		ISAKSSON and LANDEGREN, Accessing genomic information: alternatives to PCR, Curr. Opin. Biotechnol., 1999, pp. 11-15, vol. 10	
		ITO et al., Solid-phase oligosaccharide synthesis and related technologies, Curr. Opin. Biotechnol., 1998, pp. 701-708, vol. 2	
		JOOS et al., Covalent Attachment of Hybridizable Oligonucleotides to Glass Supports, Anal. Chem., 1997, pp 96-101, vol. 247	
		KAHL et al., High-Yielding method for On-Column Derivatization of Protected Oligodeoxy-nucleotides and Its Application to the Convergent Synthesis of 5', 3'-Bis-conjugates, J. of Org. Chem., 1998, pp 4870-4871, vol. 63	

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		KAHN et al., Modern Methods in Carbohydrate Synthesis, Harwood Academic, 1996, Amsterdam	
		KIERZEK et al., Association of 2'-5' oligoribonucleotides, Nuclein Acids Research, 1992, pp 1865-1690, vol. 20(7)	
		KIHLBERG et al., Direct Synthesis of Glycosylated Amino Acids from Carbohydrate Peracetates and Fmoc Amino Acids: Solid-Phase Synthesis of Biomedicinally Interesting Glycopeptides, Methods Enzymol., 1997, pp 221-245, vol. 289	
		KROKAN et al., DNA glucosylases in the base excision repair of DNA, Biochem, 1997, 1-16, vol.325	
✓		KUPPUSWAMI, et al., Single nucleotide primer extension to detect genetic diseases: Experimental application to hemophilia B (factor IX) and cystic fibrosis genes, Proc. Natl. Acad. Sci. USA, 1991, pp. 1143-1147, vol. 88	

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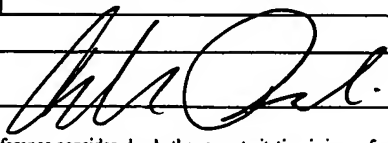
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			First Named Inventor	Thomas M. Brennan	
			Art Unit	1645 1637	
Examiner Name	Unknown CM B				
Sheet	16	of	27	Attorney Docket Number	28690-705.302«CaseNumber»

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CM B		LANDGREN, et al., The Challengers to PRC: a proliferation of chain reactions, Curre. Opin. Biotechnol., 1996, pp95-97, vol. 7	
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		LLOYD-WILLIAMS, et al., Convergent Solid-phase peptide synthesis, Tetrahedro, 1993, pp 11065-11133, vol. 49	

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CMB		LOCKHART, et al, Genomics, gene expression and NDA arrays, Nature, 2000, pp827-936, vol. 405	
		MALEK et al, Nucleic Acid Sequence-Based Amplification (NASBA), Methods Mol. Biol, 1994, pp 253-260, vol. 28	
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		McKENZIE, et al., Parallel molecular genetic analysis, European Journal of Human Genetics, 1998, pp 417-429, vol. 6	
✓		McMINN et al., Efficient Solution Phase synthesis of Oligonucleotide Conjugates Using Protected Biopolymers Containing 3'-Terminal Alkylamines, J. of Org. Chem, 1997, pp7074-7075, vol. 62	

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CMB		McMINN et al., Novel Solid Phase Synthesis Supports for the Preparation of Oligonucleotides Containing 3'-Alkyl Amines, Tetrahedron, 1996, pp 3827-3840, vol.52	
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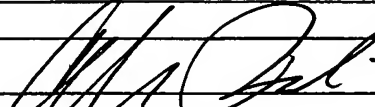
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		NGUYEN, et al, The stability of duplexes involving AT and/or G(4et)C base pairs is not dependent on their AT/G(4et)C ratio content. Implication for DNA sequencing by hybridization, Nucleic Acids Research, 1998, pp 4249-4259, vol. 26(18)	
		PANDEY, et al, Proteomics to study genes and genomes, Nature, 2000, pp 837-846, vol. 405	

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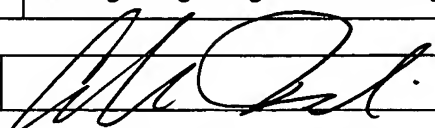
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amb		PAULSEN et al, New solid-phase oligosaccharide synthesis on glycopeptides bound to a solid phase, J. Chem. Perkin Trans, 1997, pp 281-293, vol. 1	
		PCR, A Practical Approach, eds. McPherson et al., IRL Press, Oxford, 1991	
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		RADEMANN et al, Repetitive SolidPhase Glycosylation on an Alkyl Thiol Polymer Leading to Sugar Oligomers Containing 1, J Org. Chem, 1997, pp 3650-3653, vol. 62	

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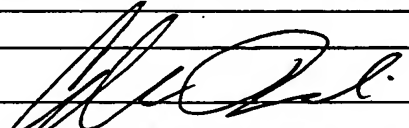
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CMB		REES, et al., Betaine Can Eliminate the Base Pair Composition Dependence of DNA Melting, Biochemistry, 1993, pp 137-144, vol. 3	
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✓		RYCHLIK, et al., Optimization of the annealing temperature for DNA amplification in vitro, Nucleic Acids Res, 1989, pp6409-6412, vol. 18(21)	

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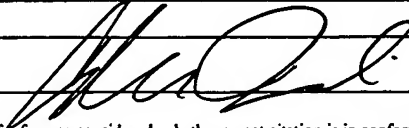
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		SCHENA et al., Microarrays: biotechnology's discovery platform for functional genomics, TIBTECH, 1998, pp. 301-306, vol. 16	
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		SHUSTER et al., Solid-Phase Chemical-Enzymatic Synthesis of Glycopeptides and Oligosaccharides, J Am. Chem. Soc, 1994, pp1135-1136, vol. 116	
		SILVERIA and ORGEL, PCR with detachable primers, Nucleic Acids Research, pp1083-1084, vol. 23(6)	
		SINGH-GASSON, et al, Maskless fabrication of light-directed oligonucleotide microarrays using a digital nucleomirror array, Nature Biotechnol, 1999, pp. 974-978, vol. 17	
		SINGHVI, et al., Engineering Cell Shape and Function, Science, 1994, pp696-698, vol. 264	

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AMS		SOKOLOV, Primer extension technique for the detection of single nucleotide in genomic DNA, Nucleic Acids Res., 1990, pp3671, vol. 18(12)	
		SOSNOWSKI et al., Rapid determination of single base mismatch mutations in DAN hybrids by direct electric field control, Proc. Natl. Acad. Sci., 1997, pp1119-1123, vol. 94	
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		TOSHIMA et al, Recent Progress in O-glycosylation Methods and Its application to Natural Products Synthesis, Chem. Rev, 1993, pp1503-1531, vol. 93	
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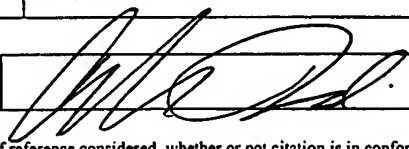
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				Application Number	10/602,998
				Filing Date	June 23, 2003
				First Named Inventor	Thomas M. Brennan
				Art Unit	1645 1637
				Examiner Name	Unknown CM Babic
Sheet	25	of	27	Attorney Docket Number	2860-705.302

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CM63		VERMA and ECKSTEIN, MODIFIED OLIGONUCLEOTIDES: Synthesis and Strategy for Users, Annu. Rev. Biochem, 1998, pp99-134, vol. 67	
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		WETMUR, DNA Probes: Applicationis of the Principles of Nucleic Acid Hybridization, Critical Reviews in Biochemistry and Molecular Biology, 1991, pp227-259, vol. 26	

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<i>AMB</i>		WIEDMANN, et al., Ligase Chain Reaction (LCR) - Overview and Applications, PCR Methods Appl, 1994, pp51-64, vol. 3	
		WHITE, High-Throughput Screening in Drug Metabolism and Pharmacokinetic Support of Drug Discovery, Annu. Rev. Pharmacol. Toxicol, 2000, pp133-157, vol. 40	
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		YOUNG, Biomedical Discovery with DNA Arrays, Cell, 2000, pp9-15, vol. 102	

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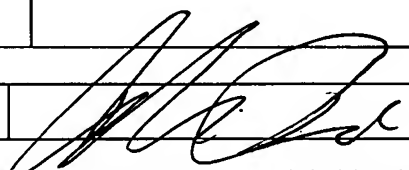
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AMS		Zheng et al, Solid Support Oligosaccharide Synthesis: Construction of B-Linked Oligosaccharides by Coupling by Glycal Derived Thioethyl Glycosyl Donors, J. Org. Chem., 1998, pp 1126-1130, vol. 63	

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